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Installation Procedures

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Tivoli Management Environment Segments

TIVSRV V3.0.0.5 (Parent Segment) with
TMPSRV, ADMSRV, SENSRV & COUSRV V3.0.0.5 (Child Segments)

TIVCLT V3.0.0.5 (Parent Segment) with
TMPCLT, ADMCLT, SENCLT & COUCLT V3.0.0.5 (Child Segments)

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SECTION 1

SYSTEM OVERVIEW

The DII COE will normally make available a large number of segments, not all of which are required for every application. The Tivoli Management Environment (TME) segments provide system administration functions for user/group/host management, software distribution and system monitoring. As an alternative for those systems who do not wish to use the Tivoli segments, the DII COE kernel provides a subset of TME functionality, specifically user/group management.

The Tivoli Management Environment consist of the following:

- Tivoli Management Platform V3.0.1
- Tivoli/Admin V3.0
- Tivoli/Courier V3.0
- Tivoli/Sentry V3.0

The Tivoli Management Environment segments consists of the following:

- TIVSRV V3.0.0.5 (Parent Segment)
    - TMPSRV V3.0.0.5 which consists of the server portion of the Tivoli Management Platform (Child Segment)
    - ADMSRV V3.0.0.5 which consists of the server portion of Tivoli/Admin, (Child Segment)
    - SENSRV V3.0.0.5 which consists of the server portion of Tivoli/Sentry, (Child Segment)
    - COUSRV V3.0.0.5 which consists of the server portion of Tivoli/Courier, (Child Segment)
- TIVCLT V3.0.0.5 (Parent Segment)
    - TMPCLT V3.0.0.5 which consists of the client portion of the Tivoli Management Platform (Child Segment)

- ADMCLT V3.0.0.5 which consists of the client portion of Tivoli/Admin, (Child Segment)

- SENCLT V3.0.0.5 which consists of the client portion of Tivoli/Sentry, (Child Segment)

- COUCLT V3.0.0.5 which consists of the client portion of Tivoli/Courier, (Child Segment)

The Tivoli Management Platform segment provides the basic system administration capabilities, as well as basic services for the management applications, such as the Tivoli system administrator facility, the Tivoli scheduler facility, and the Tivoli notice facility. The Tivoli Management Platform masks the complexities of different operating systems and network architectures from application and system managers.

Tivoli/Admin is one of the applications that can be installed on top of the Tivoli Management Platform. The Tivoli/Admin management application adds host namespace, user, group, and NIS/NIS+ management capabilities to the Tivoli Management Environment.

The Tivoli/Courier management application provides a means of managing and distributing software across a multi-platform network.

The Tivoli/Sentry management application is a tool for monitoring distributed computing resources and events on a network-wide basis including resources, such as disk space available and the status of hosts, print queues, and daemons.

SECTION 2

REFERENCED DOCUMENTS

The following documents are referenced in this Installation Procedure.

- Tivoli/Admin Release Notes V3.0, June 28, 1996
- Tivoli/Courier Release Notes (Rev B) V3.0, August 22, 1996
- Tivoli/Sentry Release Notes V 3.0, June 28, 1996
- Tivoli Management Platform Release Notes V3.0.1, June 28, 1996

SECTION 3

INSTALLATION INSTRUCTIONS FOR THE DII COE

This section applies to all DII COE platforms. The installation of the Tivoli Server, the parent segment (TIVSRV) and its children Tivoli Management Platform (TMPSRV), Tivoli/Admin (ADMSRV), Tivoli/Courier (COUSRV) and Tivoli/Sentry (SENSRV) takes approximately one and one-half hours. The installation of the Tivoli Client, the parent segment (TIVCLT) and its children Tivoli Management Platform (TMPCLT), Tivoli/Admin (ADMCLT), Tivoli/Courier (COUCLT) and Tivoli/Sentry (SENCLT) takes approximately one-half hour.

Server Installation Procedure: TIVSRV Parent Segment and TMPSRV, ADMSRV, COUSRV and SENSRV

Root must be a trusted user during the TIVSRV and TIVCLT installation to facilitate initial communication between the server and client segments. Otherwise, the installation will fail. Following the installation of the server and all clients, the trusted user modifications should be reversed. All changes must be coordinated between the site system administrator and security administrator in accordance with local policies and procedures. When installing the server, perform the following steps:

Step 1a: Make a backup copy of the */etc/default/login* file

cp /etc/default/login /etc/default/login.bak

Step 1b: Ensure that the following line is commented out in the */etc/default/login* file

CONSOLE=/dev/console

e.g., after editing, the line should appear as follows:

CONSOLE=/dev/console

Step 2a: Make a backup copy of the */.rhosts* file

cp /.rhosts /.rhosts.bak

Step 2b: The server hostname and all client hostnames must appear in the server's */.rhosts* file, e.g.,

<server_name> root

<client_name**1**> root
<client_name**2**> root
<client_name**3**> root
.
.
.
<client_name**n**> root

Step 3: All client hostnames must appear in the */etc/hosts* file - one line per client as follows:

<IP address of client**1**> <client_name**1**>
<IP address of client**2**> <client_name**2**>
<IP address of client**3**> <client_name**3**>
.
.
.
<IP address of client**n**> <client_name**n**>

NOTE: Modifications in Steps 1 and 2 should be reversed once the installation of the Tivoli server (TMPSRV) and all Tivoli clients (TMPCLT) are complete.

Step 4: The */h/data/global* filesystem must be made available to the Tivoli server and all clients on the logical Tivoli network**.** Ensure that the */h/data/global* filesystem on the global data server has been exported. The filesystem may be exported by executing the following command on the global data server:

share -F nfs -o -rw /h/data/global

The filesystem may be mounted by executing the following command on the Tivoli server:

mount <global_data_server_name>:/h/data/global /h/data/global

Note that if the global data server is also the Tivoli server, no mount is necessary.

Step 5: Run the COEInstaller and tell it to read the tape's table of contents (TOC) and highlight the Tivoli Server segment to be installed. The COEInstaller will extract the tar files for the parent COE segment (TIVSRV) into the /h/TIVSRV directory and the child COTS segments for the Tivoli Management Platform, Tivoli/Admin, Tivoli/Courier and Tivoli/Sentry into the /h/COTS/TMPSRV, /h/COTS/ADMSRV, /h/COTS/COUSRV and /h/COTS/SENSRV directories, respectively.

Step 6: The system will prompt for the TMP License key; enter the TMP License Key.

Step 7: The system will prompt for the TMR Region Name that you select for you local network; enter the TMR Region Name. A "-Region" will be appended to the Region Name you enter. This name will be used to create the Default Policy Region on the Tivoli Desktop where Tivoli resources will be located.

Client Installation Procedure: TIVCLT Parent Segment and TMPCLT, ADMCLT, COUCLT and SENCLT

Root must be a trusted user during the TIVSRV and TIVCLT installation to facilitate initial communication between the server and client segments. Otherwise, the installation will fail. Following the installation of the server and all clients, the trusted user modifications should be reversed. All changes must be coordinated between the site system administrator and security administrator in accordance with local policies and procedures. When installing the client, perform the following steps:

Step 1a: Make a backup copy of the */etc/default/login* file

cp /etc/default/login /etc/default/login.bak

Step 1b: Ensure that the following line is commented out in the */etc/default/login* file:

CONSOLE=/dev/console

e.g., after editing, the line should appear as follows:

CONSOLE=/dev/console

Step 2a: Make a backup copy of the */.rhosts* file

cp /.rhosts /.rhosts.bak

Step 2b: The client and server hostnames must appear in the client's */.rhosts* file, e.g.,

<client_name> root
<server_name> root

Step 3: The server hostname must appear in the */etc/hosts* file as follows:

<IP address of server_name> <server_name>

NOTE: Modifications in Steps 1 and 2 should be reversed once the installation of the Tivoli server (TMPSRV) and all Tivoli clients (TMPCLT) are complete.

Step 4: The */h/data/global* filesystem must be made available to the Tivoli clients. Ensure that the */h/data/global* filesystem on the global data server has been exported. The filesystem may be exported by executing the following command on the global data server:

share -F nfs -o -rw /h/data/global

The filesystem may be mounted by executing the following command on the Tivoli client:

mount <global_data_server_name>:/h/data/global /h/data/global

Note that if the global data server is also the Tivoli client, no mount is necessary.

Step 5: Run the COEInstaller and tell it to read the tape's table of contents (TOC) and highlight the Tivoli Managed Node segment to be installed. The COEInstaller will extract the tar files for the parent COE segment (TIVCLT) into the /h/TIVCLT directory and the child COTS segments for the Tivoli Management Platform, Tivoli/Courier and Tivoli/Sentry into the /h/COTS/TMPCLT, /h/COTS/ADMCLT, /h/COTS/COUCLT and /h/COTS/SENCLT directories, respectively.